

## C l a i m s

1. Screening apparatus for separating fiber suspensions, preferably pulp suspensions, comprising a pressurized screen housing (1), centrally located in the screen housing (1) a stator (8) enclosed by a screen means (7), which is rotary about a rotor shaft (11) and divides the interior of the screen housing (1) into a screen chamber (9) between the screen housing (1) and screen means (7) and an accept chamber (10) between the screen means (7) and stator (8), an inlet (4) for the fiber suspension to the screen chamber (9), a reject outlet (6) for reject from the screen chamber (9), and an accept outlet (5) for accept from the accept chamber (10), **characterized in** that on the stator (8) at least one barrier/pulse element (12) is located, which extends in axial direction along the entire stator (8) and substantially the entire screen means (7), and is tightly attached to the stator (8), and extends from the stator (8) out to the screen means (7), so that accept substantially is prevented from tangentially passing the barrier/pulse element (12).
2. Apparatus as defined in claim 1, **characterized in** that the barrier/pulse element (12) facing the screen means (7) has a pulse surface (14), where the distance between the pulse surface (14) and screen means (7) decreases in the rotation direction of the screen means.
3. Apparatus as defined in claim 1 or 2, **characterized in** that the barrier/pulse element (12) axially seen in the direction to the accept outlet (5) deflects in the rotation direction of the screen means (7).
4. Apparatus as defined in any of the preceding claims, **characterized in** that the portion of the barrier/pulse element (12) facing the rotation direction of the screen means (7), seen radially from the inside of the stator (8) and out to the screen means (7), is radial or deflects in the rotation direction of the screen means (7).

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5. Apparatus as defined in any one of the preceding claims, **characterized in** that the stator (8), screen means (7) and screen housing (1) outside the screen means (7) all have the shape of a cylinder.
6. Apparatus as defined in any one of the claims 1-5, **characterized in** that the screen means (7) is conical with increasing diameter in the direction to the accept outlet (5).
7. Apparatus as defined in any one of the preceding claims, **characterized in** that on the stator (8) 2 to 8, but suitably 3 to 4 barrier/pulse elements (12) are located.
8. Apparatus as defined in any one of the preceding claims, **characterized in** that the minimum distance between the barrier/pulse element (12) and screen means (7) is 4 to 10 mm.
9. Stator for use in a screening apparatus defined in any one of the preceding claims, **characterized in** that the stator (8) is provided with at least one barrier/pulse element (12), which extends in axial direction along the entire stator (8) and is tightly attached to the stator (8).

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